## **REMARKS**

The parent application, serial number 08/470,953 filed June 6, 1995 was subject to a restriction requirement in paper number 9, dated March 20, 1997. The inventions were designated as Group I, claims 1 - 6 and 19 - 24 drawn to an enzyme and methods of using the enzyme, classified in class 435, subclass183 and Group II, claims 7 - 18 and 25 - 30 drawn to isolated DNA sequences, expression vectors, transformed bacterial host cells and methods of expressing a protein, classified in class 435, subclass 320.1 and class 435, subclass 252.2. In the parent application, Applicants elected the invention denominated as Group I. This instant divisional application is directed to the invention denominated as Group II.

Claims 7 - 18 and 25 - 35 are pending in the application. Claims 1 - 6 and 19 - 24 have been canceled. Claims 8 - 12, 15 - 18 and 25 - 30 have been amended and claims 31 - 35 are added by the instant amendment.

Claims 8 - 12 and 16 - 25 have been amended to merely comply with standard claim drafting protocols.

New claims 31 - 33 find support in the original claims. Claim 34 is a multiple dependent claim and recites different enzyme classes as the polypeptide. Support may be found at least at page 11, lines 31 - 39 of the specification. Claim 35 is dependent on claim 34 and defines the enzyme as a xylanase.

Applicants have additionally provided a new abstract of the disclosure.

Applicants kindly solicit the allowance of claims 7 - 18 and 25 - 35.

Respectfully submitted,

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Genencor International, Inc. 925 Page Mill Road Palo Alto, CA 94304 Tel. No. 650 -846-7620 Lynn Marcus-Wyner, Ph.D.

Reg. No. 34,869

Attorney for Applicants

## MARKED-UP VERSION OF THE ABSTRACT

The invention relates to [a xylanase originating from a Bacillus strain. This xylanase is active over a wide range of acid and basic pH.

The invention also relates to new strains of microorganisms producing this xylanase and to methods for preparing this xylanase.] an isolated and purified culture of Bacillus sp. strain 720/1 (LMG P-14798); to xylanases obtained from this strain and xylanases obtained from derivatives and mutants of strain 720/1.

The invention also relates to a DNA molecule <u>encoding a xylanase</u> and to [an] expression vectors or [an] integration vectors containing the DNA molecule.

This invention also relates to [uses of the latter and to composition containing it. Figure 2] <u>transformed host strains comprising the DNA molecule encoding the xylanase</u>.

## MARKED-UP VERSION OF AMENDED CLAIMS

- 8.(Amended) An isolated DNA molecule comprising the nucleotide sequence [(SEQ ID NO: 1)] illustrated in SEQ ID NO: 1 which codes for the mature xylanase of Bacillus sp. 720/1 (LMG P-14798) or a modified sequence derived from this sequence.
- 9.(Amended) An isolated DNA molecule [according to Claim 8, characterized in that it comprises] comprising the nucleotide sequence [(SEQ ID NO: 4)] illustrated in SEQ ID NO: 4 which codes for the Bacillus sp 720/1 xylanase precursor or a modified sequence derived from this sequence.
- 10.(Amended) <u>An isolated</u> DNA molecule [according to Claim 8 or 9, characterized in that it comprises] <u>comprising</u> the [entire] Bacillus sp 720/2 xylanase gene [(SEQ ID NO:10)] <u>as</u> illustrated in SEQ ID NO: 10.
- 11.(Amended) The isolated DNA molecule according to Claim [8, characterized in that it] 32, wherein said DNA molecule comprises [the] a promoter [(SEQ ID NO: 26)] having the sequence illustrated in SEQ ID NO: 26 derived from the gene which codes for Bacillus pumilus PRL B12 xylanase[, the] and a presequence [(SEQ ID NO:27)] illustrated in SEQ ID NO: 27 which codes for the signal peptide of Bacillus pumilus PRL B12 xylanase [and the nucleotide sequence (SEQ ID NO: 1) which codes for Bacillus sp. 720/1 xylanase].
- 12.(Amended) [Expression] <u>An expression</u> vector or chromosomal integration vector [containing] <u>comprising</u> the DNA molecule according to Claim 8, 9, 10, [or] 11, 32 or 33.
- 15.(Amended) [Transformed] <u>A transformed</u> strain comprising the DNA molecule according to Claim 8, 9, 10, [or] 11, 32 or 33.
- 16.(Amended) [Transformed] <u>A transformed</u> strain comprising the expression vector or chromosomal integration vector according to Claim 12, 13 or 14.
- 17.(Amended) [Transformed] <u>The transformed</u> strain according to Claim 15 or 16, [characterized in that it] <u>wherein said strain</u> is a Bacillus strain.

18.(Amended) [Transformed] <u>The transformed</u> strain according to Claim 17, [characterized in that it] <u>wherein said strain</u> is a Bacillus licheniformis or Bacillus pumilus strain.

25.(Amended) [Promoter (SEQ ID NO: 26)] <u>A promoter comprising the sequence</u> <u>illustrated in SEQ ID NO: 26, wherein said promoter is</u> derived from the gene which codes for Bacillus pumilus PRL B12 xylanase.

26.(Amended) [Presequence (SEQ ID NO:27)] <u>A presequence comprising the sequence illustrated in SEQ ID NO: 27</u> which codes for the signal peptide of Bacillus pumilus PRL B12 xylanase.

27.(Amended) [Expression] An expression system which can be used for the production of a polypeptide, [characterized in that it comprises] comprising:

<u>a)</u> a promoter [the sequence of the promoter (SEQ ID NO: 26)] <u>comprising the sequence illustrated in SEQ ID NO: 26</u> derived from the gene which codes for Bacillus pumilus PRL B12 xylanase,

<u>b</u>) a sequence coding for a signal peptide, and [the] <u>c</u>) a sequence <u>encoding</u> [of] the polypeptide [of interest].

28.(Amended) [Expression] An expression system which can be used for the production of a polypeptide[, characterized in that it comprises] comprising:

[the sequence of a promoter;] a) a promoter;

[the] <u>b) a presequence</u> [(SEQ ID NO: 27)] <u>having the sequence illustrated in SEQ ID NO: 27</u> which codes for the signal peptide of Bacillus pumilus PRL B12 xylanase, and [the] <u>c) a sequence encoding</u> [of] the polypeptide [of interest].

29.(Amended) [Expression] An expression system which can be used for the production of a polypeptide[, characterized in that it comprises] comprising:

[the sequence of the ] <u>a) a</u> promoter [(SEQ ID NO: 26)] <u>having the sequence illustrated in SEQ ID NO: 26</u> derived from the gene which codes for Bacillus pumilus PRL B12 xylanase;

[the] <u>b) a presequence</u> [(SEQ ID NO: 27)] <u>having the sequence illustrated in SEQ ID NO: 27</u> which codes for the signal peptide of Bacillus pumilus PRL B12 xylanase, [the] <u>c) a</u> sequence <u>encoding</u> [of] the polypeptide [of interest], and [the sequence of] <u>d)</u> a terminator <u>sequence</u>.

30. [Expression] <u>The expression</u> system according to Claim 27, 28 or 29, [characterized in that] <u>wherein</u> [the sequence of] the polypeptide [of interest] corresponds to the nucleotide sequence of [(]SEQ ID NO: 1[)] which codes for Bacillus sp. 720/1 xylanase.